

**Amendments to the Abstract:**

Please add a separate page, which follows page 74 and recites the following:

**ABSTRACT OF THE DISCLOSURE**

The invention provides isolated nucleic acid and amino acid sequences of Kv6.2, antibodies to Kv6.2, methods of detecting Kv6.2, methods of screening for voltage-gated potassium channel activators and inhibitors using biologically active Kv6.2, and kits for screening for activators and inhibitors of voltage-gated potassium channels comprising Kv6.2.